Energy and Climate Change

The Total Carbon Footprint (CO₂ emission in the last 12 months, in metric tons) in Tanta University

CO₂ (electricity) $= \frac{electricity\ usage\ per\ year\ (kWh)}{electricity\ usage\ per\ year\ (kWh)} \times 0.84$ $\frac{2431520 \, kWh}{1000} \times 0.84$ 1000 = 2042.47 metric tons CO₂ (bus) $= \frac{number\ of\ shuttle\ bus\ in\ your\ university\times total\ trips\ for\ shuttle\ bus\ service\ each\ day\ \times approximate\ travel\ distance\ of\ vehicle\ each\ day\ inside\ campus\ only\ (KM)\times 240}{\times 0.01} \times 0.01$ 100 $=\frac{46 \times 46 \times 3 \times 240}{100} \times 0.01$ 100 = 152.35 metric tons CO₂ (cars) = $\frac{\text{number of cars entering your university} \times 2 \times \text{approximate travel distance of vehicle each day inside campus only (KM)}{\times 240} \times 0.02$ $= \frac{{}^{1000 \times 2 \times 3 \times 240}}{{}^{100}} \times 0.02$ = 288 metric tons CO₂ (motorcycle) $= \frac{\text{number of motorcycle entering your university} \times 2 \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{\text{motorcycle entering your university}} \times 0.01$ $= \frac{300 \times 2 \times 3 \times 240}{100} \times 0.01$ = 43.2 metric tons CO₂ (total) = 2042.47 + 152.35 + 288 + 43.2= 2526 metric tons **Carbon footprint in 2022 =** 2526 metric tons

Total Carbon Footprint of Tanta university for year 2022/2023